

AMENDMENTS TO THE CLAIMS

Please cancel Claim 21; amend Claim 1; and, add new Claim 23 as follows.

LISTING OF CLAIMS

1. (currently amended) An air-conditioner in combination with a vehicle comprising:

a blower including a fan and a casing for accommodating the fan to constitute an air path, and supplying air to a compartment;

an air-conditioner casing constituting a path of air supplied from the blower;

a cooling unit arranged in the air-conditioner casing for cooling the air supplied into the compartment;

a heating unit arranged in the air-conditioner casing for heating the air supplied into the compartment;

an air flow-rate adjusting means for adjusting flow rate of air supplied to the cooling unit and flow rate of air supplied to the heating unit; and

an air mixing chamber for mixing cool air cooled by the cooling unit and hot air heated by the heating unit; wherein

~~wherein~~ the air flow-rate adjusting means adjusts the flow rate of the air supplied to the cooling unit and the flow rate of the air supplied to the heating unit, by changing a position of the casing and thereby changing a flow direction of air discharged from the blower to a predetermined direction;

the cooling inlet of the cooling unit and a heating inlet of the heating unit are arranged in parallel with each other in such a manner as to partially encircle the blower;

~~wherein~~ the casing is installed on a front side in a trunk compartment behind a rear seat of the vehicle in such a manner that an inclined portion of the air-conditioner is arranged on a front side of the casing in a vehicle longitudinal direction and extends along a backrest of the rear seat;

the blower is arranged at a rear upper side of the vehicle in the air-conditioning casing;

the blower is arranged in such a manner that an axial direction of a rotating shaft of the fan extends in a transverse direction of the vehicle;

the cooling unit is arranged substantially horizontally and directly below the rotating shaft of the fan;

the heating unit is arranged substantially vertically at a front side of the vehicle with respect to the blower so as to be located close to an end of the cooling unit;
and

the air mixing chamber is arranged at a front lower side of the vehicle in the air-conditioning casing.

2.-5. (cancelled)

6. (previously presented) The combination according to claim 1,
wherein the cooling inlet of the cooling unit and the heating inlet of the heating unit are arranged in parallel with each other with respect to an axis of rotation of the fan.

7. (previously presented) The combination according to claim 1,
wherein the air flow-rate adjusting means rotates the casing about a rotational axis of the fan.

8. (cancelled)

9. (previously presented) The combination according to claim 1,
wherein the air flow-rate adjusting means controls the whole flow rate of air discharged from the blower to the cooling unit in a maximum cooling mode.

10. (previously presented) The combination according to claim 1,
wherein the air flow-rate adjusting means controls the whole flow rate of air discharged from the blower to the heating unit in a maximum heating mode.

11.-17. (cancelled)

18. (previously presented) The combination according to claim 1,
wherein a partition plate is provided and extends from an outlet area of the casing to a space between the cooling unit and the heating unit.
19. (previously presented) The combination according to claim 1,
wherein the cooling unit and the heating unit are arranged in a V shape to partially encircle the blower.
20. (previously presented) The combination according to claim 1,
wherein air flowing through the heating unit and air flowing through the cooling unit are always directed into a common air mixing chamber.
21. (cancelled)
22. (previously presented) The combination according to claim 1,
wherein air discharge openings for discharging air-conditioned air are provided in a front side of the cooling unit and the heating unit in the vehicle longitudinal direction and are arranged along the inclined portion, and an upper end of the air discharge openings is located below an upper end of the heating unit.

23. (new) The combination according to claim 1, wherein the air conditioner further comprises:

an electronic control unit for calculating a target blowout air temperature of air-conditioned air and for calculating a specific ratio between a cool air flow and a hot air flow on which the target blowout air temperature of the air-conditioned air is based, the electronic control unit controlling the position of the casing so as to set an air-flow ratio between air discharged from the blower to the cooling unit and air discharged from the blower to the heating unit equal to the specific ratio.